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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/092,483	03/08/2002	Bruce W. Smith	P 284420 P-0276.012-US	2472
909 7	590 12/31/2003		EXAM	INER
PILLSBURY WINTHROP, LLP			NGUYEN, HUNG	
P.O. BOX 10500 MCLEAN, VA 22102			ART UNIT	PAPER NUMBER
1410222114, 47			2851	
	·		DATE MAILED: 12/31/200	3

Please find below and/or attached an Office communication concerning this application or proceeding.

	Annthonion No.	Applicantia	
	Application No.	Applicant(s)	
	10/092,483	SMITH, BRUCE W.	
Office Action Summary	Examiner	Art Unit	
	Hung Henry V Nguyen	2851	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a rep. reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT atute. cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. INDONED (35 U.S.C. § 133).	
1)⊠ Responsive to communication(s) filed on A	mendment filed 10/9/03		
,—	his action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice und	wance except for formal matte	rs, prosecution as to the merits is 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-27</u> is/are pending in the applica	tion.		
4a) Of the above claim(s) is/are with			
5) Claim(s) 2-12 and 15-26 is/are allowed.			
6)⊠ Claim(s) <u>1,13 and 14</u> is/are rejected.			
7)⊠ Claim(s) <u>27</u> is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
pplication Papers			
9)☐ The specification is objected to by the Exam			
10) The drawing(s) filed on is/are: a)			
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the co			
11) The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.	
riority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	reign priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docum	nents have been received.		
2. Certified copies of the priority docum	nents have been received in Ap	oplication No	
3. Copies of the certified copies of the application from the International Bu	priority documents have been i	received in this National Stage	
* See the attached detailed Office action for a	list of the certified copies not r	received.	
13) Acknowledgment is made of a claim for dom since a specific reference was included in the 37 CFR 1.78.	nestic priority under 35 U.S.C. { e first sentence of the specifica	§ 119(e) (to a provisional application tion or in an Application Data Sheet.	
 a) ☐ The translation of the foreign language 14) ☐ Acknowledgment is made of a claim for dom 	e provisional application has be sestic priority under 35 H.S.C. 8	SS 120 and/or 121 since a specific	
reference was included in the first sentence	of the specification or in an App	plication Data Sheet. 37 CFR 1.78.	
Attachment(s)			
Notice of References Cited (PTO-892)		ummary (PTO-413) Paper No(s)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	3) 5) Notice of In	formal Patent Application (PTO-152)	
2) Information Disclosure Statement(s) (PTO-1449) Paper No.	·		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 13 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Sunda et al (U.S.Pat. 4,970,586).

With respect to claims 1, Sunda et al discloses a masking aperture comprising all basic features of the instant claims such as a transparent substrate and a half tone dithered image on the substrate (see figs.4-6) the half-tone image including an array of pixels which are arranged in accordance with features on the photomask to be illuminated (see col.4, lines 33-62; col.5, lines 25-32).

As to claims 13 and 14, Sunda teaches the masking aperture (100-105) comprising one or more zones arranged symmetrical/or asymmetrical (see fig.4) about the center of the masking aperture.

Allowable Subject Matter

- 3. Claims 2-12, 15-26 are allowed.
- 4. Claim 27 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Amendment/Arguments

- Applicant's amendment filed October 9, 2003 have been entered. Claims 1-3 have been 5. amended. New claims 22-27 have been added. Applicant's arguments with respect to the prior art rejection of claims 1, 13 and 14 have been carefully reviewed but they are not found to be persuasive. The limitations of amended claims 1 and 13 and 14 are met by Sunda et al (U.S.Pat. 4,970,586) as set forth in the previous office action. In response to applicant's arguments that Sunda fails to teach a masking aperture as recited in amended claim 1; the Examiner respectfully disagrees with the applicant because Sunda teaches a masking aperture comprising all basic structures of present invention as broadly claimed. For example, Sunda teaches the sheet F made of polyester film of high transparency (see col.4, lines 33-35)/the transparent substrate and a half tone dithered pattern on the substrate (see figs.4-6) the half-tone pattern including an array of pixels of generating a continuous illumination intensity pattern where the illumination intensity at any location is controlled by the half-tone dithered pattern based on features on the photomask to be illuminated (see (col.4, lines 33-62; col.5, lines 25-32).
- THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time 6. policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Prior Art Made of Record

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Spencer (U.S.Pat. 6,356,340) teaches a programmable photomask having a plurality of addressable pixels.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Henry V Nguyen whose telephone number is 703-305-6462. The examiner can normally be reached on Monday-Friday (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on 703-308-2847. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

hvn 12/19/03 MENNY MUNS NGUYEN